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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,385	06/26/2001	Dennis G. Thibedeau	10473-784	9489
7	590 12/17/2002			
McDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096			EXAMINER	
			HE, AMY	
			ART UNIT	PAPER NUMBER
			2858	
			DATE MAILED: 12/17/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/888,385	THIBEDEAU ET AL. H				
Office Action Summary	Examiner	Art Unit				
	Amy He	2858				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 04 C	October 2002 .					
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>16 and 17</u> is/are allowed.						
6)⊠ Claim(s) <u>1-4,9-15 and 18</u> is/are rejected.						
7) Claim(s) <u>5-8 and 19-22</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>26 June 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
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Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 9. 	5) 🔲 Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

1. The amended abstract is accepted by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-4, 9-10 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by UK Patent No: GB2073464.

Referring to claim 1, UK patent GB2073464 discloses a method for evaluating operation of an alternator comprising:

detecting a frequency component (using frequency meter 21A) of an alternator output signal (specification page, column 1, lines 18-20 and lines 34-35); comparing the frequency component of the alternator output signal with a threshold frequency (specification page, column 1, lines 21-22); and evaluating operation of the alternator based on a result of the comparing step (specification page, column 1, lines 24-29).

Referring to claim 3, UK patent GB2073464 discloses the method of claim 1, wherein if the frequency component is smaller than the threshold frequency (34 HZ), the alternator is determined as defective (specification page, column 2, lines 89-92 and lines 113-117).

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Referring to claims 4 and 18, UK patent GB2073464 discloses a system for evaluating the operation of an alternator comprising:

a terminal/means (see terminal to the left of the frequency detector in Figure 4) for receiving an alternator output signal representative of an output of the alternator;

a frequency detection device/means (frequency detector in Figure 4) for detecting a frequency component of the alternator output signal; a controller/means (control logic in Figure 3) for comparing the frequency component of the alternator output signal to a threshold frequency, and generating an indication signal (alarm signal) based on result of the comparison; and

an indication device (visual alarm) responsive to the content of the indication signal for indicating the operation of the alternator (specification page, column 2, line 81).

Referring to claim 9, UK patent GB2073464 discloses the system of claim 4, wherein the alternator output signal is the voltage generated by the alternator (see Figure 4).

Referring to claim 10, UK patent GB2073464 discloses the system of claim 4, wherein the alternator is installed in an automotive vehicle and driven by the engine of the automotive vehicle (specification page, column 1, lines 5-8).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over UK patent GB2073464, in view of Sievers et al. (U.S. Patent No: 4, 379, 990).

Referring to claim 2, UK patent GB2073464 discloses the method of claim 1. UK patent GB2073464 does not disclose maintaining the rotational speed of the alternator at a predetermined level before detecting the frequency component of the alternator output signal.

Sievers suggests that if the alternator rotational speed is too low, it may cause an inaccurate detection (column 14, lines 62-66).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify UK patent GB2073464 to maintain the alternator rotation speed above a certain threshold value, as suggested by Sievers, so as to measure the frequency component more accurately.

4. Claims 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over UK patent GB2073464, in view of Bertness (U.S. Patent No: 6,331,762)

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Referring to claims 11, 12 and 14, UK patent GB2073464 discloses the system of claim 10. UK patent GB2073464 does not disclose a database, accessible by the controller, including threshold frequencies corresponding to more than one vehicle model, as well as threshold frequencies corresponding to more than one engine or alternator rotational speeds.

Bertness discloses a database/memory (memory 40), accessible by the controller (microprocessor 12 or 22), which could be used to store various threshold corresponding to more than one vehicle model, as well as various engine or motor rotational speeds (column 9, lines 54-66; column 8, lines 1-10; column 11, lines 23-30; column 13, lines 23-26; lines 44-49).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to further modify UK patent GB2073464 to use a database, accessible by the controller, including threshold frequencies corresponding to more than one vehicle model, as well as threshold frequencies corresponding to more than one engine or alternator rotational speed, so that the alternator tester could be used for different vehicle models, different engine or alternator speed.

Referring to claims 13 and 15, UK patent GB2073464 discloses the system of claims 4 and 10, except for an alternator output signal received from a vehicle computer, or a data processing system.

Bertness discloses an alternator output signal, received from a vehicle computer, or a data processing system, installed on the automotive vehicle (the microprocessor, column 15, claim 9).

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It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify UK patent GB2073464 to obtain an alternator output signal from a vehicle computer installed on the automotive, as taught by Bertness, to improve efficiency of the evaluation.

Response to Arguments

5. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

- 6. Claims 5-8 are objected to as being dependent upon a rejected base claim (claim 4), but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 16-17 are allowed.
- 8. Claims 19-22 are objected to as being dependent upon a rejected base claim (claim 18), but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy He whose telephone number is (703) 305-3360. The examiner can normally be reached on 8:30am-5pm Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, N. Le can be reached on (703) 308-0750.

The official Fax numbers for the organization are (703-872-9318) Before-Final and (703-872-9319) After-Final Office actions. Any inquiry of a general nature relating to this application should be directed to the receptionist at (703) 305-4900.

ΑH

December 9, 2002

N. Le

Supervisory Patent Examiner Technology Center 2800